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C. IRVIN MCCLELLAND OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314				THOMPSON, JAMES A
ART UNIT		PAPER NUMBER		
		2625		

DATE MAILED: 10/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/961,256	NARA, WATARU
Examiner	Art Unit	
James A. Thompson	2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 18 July 2006.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) _____ is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-35 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 25 September 2001 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 18 July 2006 have been fully considered but they are not persuasive.

Regarding page 11, line 2 to page 12, line 14: Examiner agrees with Applicant that Tse (US 6,198,845 B1) does not fully teach the presently amended claims. However, additional prior art, specifically Koga (US Patent 5,388,167), has been discovered which renders the present claims obvious to one of ordinary skill in the art at the time of the invention. Furthermore, the motivation one of ordinary skill in the art at the time of the invention would have had to combine Koga with the previously cited prior art is found in Koga, as set forth in detail in the prior art rejections below. The new grounds of rejection set forth below have been necessitated by the present amendments to the claims.

Regarding page 12, line 15 to page 13, line 6: Firstly, the teachings with respect to a user input which is used to choose performance or non-performance of the background removable is taught by Venable (US Patent 5,270,806), as set forth below and in the previous office action, mailed 18 April 2006. The selection of whether or not to perform the background removal process does not in any way render Tse unsatisfactory for its intended purpose. Applying the teachings of Venable merely means that a user may decide to pass the image "as-is" rather than performing the background removal function taught by Tse. The combined system of Tse and Venable can still perform background removal as per the teachings of Tse. The combination of

Tse and Venable now gives a user the option of whether to perform said background removal or not.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1, 6-8, 11, 14, 19-21, 26-28 and 30-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tse (US Patent 6,198,845 B1) in view of Koga (US Patent 5,388,167).

Regarding claims 1, 14 and 26: Tse discloses a device (figure 13 of Tse) comprising:

- a photoelectric conversion unit (figure 13(300) of Tse) which scans a document (figure 1 of Tse) and supplies image data of the scanned document (column 8, line 51 of Tse).
- a background detecting unit (figure 13(100(portion)) of Tse) which detects a background level value data of the image data (column 3, lines 53-56 of Tse) so as to produce original background level value indicative of the background level (column 3, lines 32-35 of Tse).
- an image processing unit (figure 13(100(portion)) of Tse) which applies one or more types of image processing to the image data so as to generate image processed data (figures 11a-11d and column 7, line 66 to column 8, line 5 of Tse), and applies image processing identical to said one or more

types of image processing to the original background level value (figure 10c and column 7, lines 42-65 of Tse) to produce modified background level value data (column 5, lines 26-34 of Tse).

- a background removal unit (figure 13(100(portion)) of Tse) which removes background noise from the image processed data according to a generated threshold (column 6, lines 22-30 and column 7, lines 42-48 of Tse) that is derived from the modified background level data (column 5, lines 26-34 of Tse).

→ The image processing unit applies dynamic range modification to the image (column 7, lines 49-65 of Tse) using the image background gray level (BKG) previously determined (column 7, lines 64-65 of Tse). The dynamic range is modified such that all pixels with gray levels greater than the background gray level are saturated white (column 7, lines 42-47 of Tse). Thus, when the background removal unit produces the output values of the input image (column 8, line 67 to column 9, line 2 of Tse), the background noise is removed. Further, the dynamic range adjusting system (figure 13(100) of Tse) is embodied in a computer (column 9, lines 12-13 of Tse). Thus, the background detecting unit, image processing unit, and background removal unit each correspond to a particular portion of the computer, along with the associated working memory and embodied software. Tse does not disclose expressly that said original background data is separate from and not part of the image data. Koga discloses removing original background data (figure 2D of Koga) that is separate from and not part of the image data (figure 2C and column 10, lines 30-46 of Koga).

Tse and Koga are combinable because they are from the same field of endeavor, namely removing background data in scanned document image data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to remove background data that is separate from and not part of the image data, as taught by Koga. The motivation for doing so would have been to improve the efficiency of image data transmission (column 10, lines 22-25 and lines 39-46 of Koga). Therefore, it would have been obvious to combine Koga with Tse to obtain the invention as specified in claims 1, 14 and 26.

Further regarding claim 14: The device of claim 1 performs the method of claim 14.

Further regarding claim 26: The various units of the device recited in claim 1 are the corresponding means of the device recited in claim 26.

Regarding claims 6 and 19: Tse discloses that said image processing unit applies said one or more types of image processing to the image data and the original detected background level value through one operation (column 7, lines 46-50 of Tse). The dynamic range modification is performed to both the background level (column 7, lines 46-47 of Tse) and the image data (column 7, lines 47-50 of Tse) as a single combined operation (figures 11a-11d and column 7, line 66 to column 8, line 5 of Tse).

Regarding claims 7 and 20: Tse discloses a combining unit (figure 13(100(portion)) and column 9, lines 12-13 of Tse) which includes the detected original background level into the image data as part of the image data prior to the image processing by said image processing unit (column 7, lines 46-49 of Tse). The detected background level is included as a part of the image data since pixels which have a gray level value above the detected

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ted background level are saturated white (column 7, lines 46-49 of Tse). The combining unit corresponds to the portion of the controller, along with the associated embodied software, that performs the functions of the combining unit (column 9, lines 12-13 of Tse).

Regarding claims 8 and 21: Tse discloses that said combining unit generates a gate signal indicative of a position of the detected background level value data included in the image data (figure 15 and column 10, lines 13-22 of Tse).

Tse further discloses a background data extracting unit (figure 13(100(portion)) and column 9, lines 12-13 of Tse) which extracts the detected original background level value data (column 8, lines 48-54 and lines 63-65 of Tse) from the image data in response to the gate signal (column 9, line 65 to column 10, line 3 of Tse). The detected background level is calculated (column 8, lines 63-65 of Tse) based on the image data histogram (figure 4 and column 8, lines 48-54 of Tse), which is produced using a gate signal indicative of a position of an analyzed pixel within an analysis window (column 9, line 65 to column 10, line 3 of Tse), and thus the position of the detected background level.

Regarding claim 11: Tse discloses a printer unit (figure 13(400) of Tse) which prints an image on a paper sheet according to the image data from which the background noise is removed by said background removal unit (column 8, lines 44-47 of Tse).

Regarding claims 27 and 30: Tse discloses a device (figure 13 of Tse) comprising:

- a background detecting unit (figure 13(100 (portion)) and column 8, lines 63-65 of Tse) which detects background

level data of the image data of a scanned document (column 3, lines 23-25 and lines 53-56 of Tse).

- a threshold generating unit (figure 13(100(portion)) of Tse) which determines a threshold based on the detected background level data (column 7, lines 46-47 of Tse) so as to produce an original threshold level value indicative of a threshold (column 3, lines 32-35 of Tse).
- a clipping unit (figure 13(100(portion)) of Tse) which clips to the threshold the image data above the original threshold level value (column 7, lines 46-47 of Tse).
- an image processing unit (figure 13(100(portion)) of Tse) which applies one or more types of image processing to the clipped image data so as to generate clipped image processed data (figures 11a-11d and column 7, line 66 to column 8, line 5 of Tse), and further to the original threshold level value (figure 10c and column 7, lines 49-65 of Tse).
- a background removal unit (figure 13(100(portion)) of Tse) which removes background noise from the clipped image processed data according to a generated threshold (column 6, lines 22-30 of Tse) that is derived from the threshold value level (column 6, lines 30-55 of Tse).
→ The image processing unit applies dynamic range modification to the image (column 7, lines 49-65 of Tse) using the original background gray level (BKG) previously determined (column 7, lines 64-65 of Tse). The background gray level is the threshold above which the gray level values are clipped (column 7, lines 46-47 of Tse), thus the dynamic range is modified such that all pixels with gray levels greater than the background gray level are saturated white (column 7, lines 42-47 of Tse). Thus, when the background

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removal unit produces the output values of the input image (column 8, line 67 to column 9, line 2 of Tse), the background noise is removed.

Tse does not disclose expressly that said one or more types of image processing applied to the original threshold value produces a modified threshold level value.

Koga discloses applying one or more types of image processing to the original threshold value to produce a modified threshold value (associated with background shading) (figures 2A-2D; column 10, lines 30-46; and column 16, lines 14-22 of Koga).

Tse and Koga are combinable because they are from the same field of endeavor, namely removing background data in scanned document image data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the background shading, and thus the threshold value, by applying one or more types of image processing, as taught by Koga. The motivation for doing so would have been to improve the efficiency of image data transmission (column 10, lines 22-25 and lines 39-46 of Koga). Therefore, it would have been obvious to combine Koga with Tse to obtain the invention as specified in claims 27 and 30.

Further regarding claim 30: The device of claim 27 performs the method of claim 30.

Regarding claim 28: Tse discloses a combining unit (figure 13(100(portion)) and column 9, lines 3-7 of Tse) which includes the threshold into the clipped image data as part of the clipped image data prior to the image processing by said image processing unit (column 7, lines 46-49 of Tse). The detected background level, and thus the threshold, is included as a part of the clipped image data since pixels which have a gray level value

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above the detected background level are saturated white (column 7, lines 46-49 of Tse). The combining unit corresponds to the portion of the computer, along with the associated embodied software, that performs the functions of the combining unit (column 9, lines 12-13 of Tse).

Further regarding claims 31-35: Koga discloses appending the original background level value data to the image data (figure 2D and column 10, lines 39-52 of Koga) for subsequent processing with the image data (column 10, lines 53-63 of Koga). By combination with Tse, the appending taught by Koga would be performed by the background detecting unit/means.

4. **Claims 2-3 and 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tse (US Patent 6,198,845 B1) in view of Kago (US Patent 5,388,167) and Shirasawa (US Patent 5,689,590).**

Regarding claims 2-3 and 15-16: Tse in view of Kago does not disclose expressly that said one or more types of image processing includes γ conversion.

Shirasawa discloses γ conversion processing (figure 3(121-124) and column 5, lines 63-67 of Shirasawa) in a background image data removal system (column 6, lines 44-48 of Shirasawa), wherein said γ conversion processing is performed at an end of one or more types of image processing (figure 3(110,111) and column 5, lines 43-45 and lines 63-66 of Shirasawa).

Tse in view of Kago is combinable with Shirasawa because they are from the same field of endeavor, namely removal of background noise in digital image data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to perform γ conversion processing at an end of one or more types of image processing, as taught by Shirasawa,

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said one or more types of image processing being the one or more types of image processing taught by Tse. The motivation for doing so would have been to correct for inaccuracies in the sensors and color separated image data (column 5, lines 32-39 of Shirasawa). Therefore, it would have been obvious to combine Shirasawa with Tse in view of Kago to obtain the invention as specified in claims 2-3 and 15-16.

5. Claims 4-5, 9-10, 17-18, 22-23 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tse (US Patent 6,198,845 B1) in view of Kago (US Patent 5,388,167) and Kamo (US Patent 5,465,160).

Regarding claims 4 and 17: Tse in view of Kago does not disclose expressly that said one or more types of image processing includes MTF correction.

Kamo discloses performing MTF correction on scanned image data (column 10, lines 29-32 of Kamo).

Tse in view of Kago is combinable with Kamo because they are from the same field of endeavor, namely processing and correction of scanned digital image data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to perform MTF correction on the scanned in image, as taught by Kamo. The motivation for doing so would have been to provide the proper frequency response for the image data scanned in by the scanner, thus improving the image quality. Therefore, it would have been obvious to combine Kamo with Tse in view of Kago to obtain the invention as specified in claims 4 and 17.

Regarding claims 5 and 18: Tse in view of Kago does not disclose expressly that said one or more types of image processing includes a filtering process.

Kamo discloses performing a filtering process on the scanned digital image data (column 10, lines 29-32 of Kamo). Both shading correction and edge smoothing (column 10, lines 29-32 of Kamo) are types of filtering processes.

Tse in view of Kago is combinable with Kamo because they are from the same field of endeavor, namely processing and correction of scanned digital image data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to perform a filtering process on the scanned image data, as taught by Kamo. The motivation for doing so would have been improve the overall image quality. Therefore, it would have been obvious to combine Kamo with Tse in view of Kago to obtain the invention as specified in claims 5 and 18.

Regarding claims 9 and 22: Tse discloses that said combining unit includes the detected original background level into the image data at a position of a blank period of the image data (figures 11a (white portions of images); column 7, lines 46-49; and column 10, lines 13-22 of Tse). Pixel positions within specific windowed portions of the scanned image data are analyzed (column 10, lines 13-22 of Tse). For certain positions (figures 11a (white portions of images) and column 7, line 67 to column 8, line 1 of Tse), specifically the portions that are originally white, the detected background level is included as the image data at said positions (column 7, lines 46-49 of Tse).

Tse in view of Kago does not disclose expressly that said one or more types of image processing includes a filtering process.

Kamo discloses performing a filtering process on the scanned digital image data (column 10, lines 29-32 of Kamo).

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Both shading correction and edge smoothing (column 10, lines 29-32 of Kamo) are types of filtering processes.

Tse in view of Kago is combinable with Kamo because they are from the same field of endeavor, namely processing and correction of scanned digital image data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to perform a filtering process on the scanned image data, as taught by Kamo. The motivation for doing so would have been improve the overall image quality. Therefore, it would have been obvious to combine Kamo with Tse in view of Kago to obtain the invention as specified in claims 9 and 22.

Regarding claims 10 and 23: Tse discloses that said combining unit includes the detected original background level into the image data at a position of a valid period of the image data (figures 11d (white portions of images); column 7, lines 46-49; and column 10, lines 13-22 of Tse). Pixel positions within specific windowed portions of the scanned image data are analyzed (column 10, lines 13-22 of Tse). For certain positions (figures 11d (white portions of images) and column 8, lines 4-5 of Tse), specifically the portions that are were not originally white but are modified to the background level, the detected background level is included as the image data at said positions (column 7, lines 46-49 of Tse).

Tse in view of Kago does not disclose expressly that said one or more types of image processing includes a filtering process.

Kamo discloses performing a filtering process on the scanned digital image data (column 10, lines 29-32 of Kamo). Both shading correction and edge smoothing (column 10, lines 29-32 of Kamo) are types of filtering processes.

Tse in view of Kago is combinable with Kamo because they are from the same field of endeavor, namely processing and correction of scanned digital image data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to perform a filtering process on the scanned image data, as taught by Kamo. The motivation for doing so would have been improve the overall image quality. Therefore, it would have been obvious to combine Kamo with Tse in view of Kago to obtain the invention as specified in claims 10 and 23.

Regarding claim 29: Tse discloses that said combining unit includes the threshold into the clipped image data at a position of a valid period of the clipped image data (figures 11d (white portions of images); column 7, lines 46-49; and column 10, lines 13-22 of Tse). Pixel positions within specific windowed portions of the scanned image data are analyzed (column 10, lines 13-22 of Tse). For certain positions (figures 11d (white portions of images) and column 8, lines 4-5 of Tse), specifically the portions that are were not originally white but are modified to the background level, the detected background level is included as the image data at said positions (column 7, lines 46-49 of Tse).

Tse in view of Kago does not disclose expressly that said one or more types of image processing includes a filtering process; and that the included threshold has a data size larger than a filter size of said filtering operation.

Kamo discloses performing a filtering process on the scanned digital image data (column 10, lines 29-32 of Kamo). Both shading correction and edge smoothing (column 10, lines 29-32 of Kamo) are types of filtering processes.

As is well-known in the art, edge smoothing is performed locally, such as at small segments of characters (figures 13a-13c and figure 14 of Kamo). The threshold data size is throughout the background area of the entire image (figure 11d (white portion) of Tse). Therefore, the included threshold taught by Tse has a data size larger than a filter size of said filtering operation taught by Kamo.

Tse in view of Kago is combinable with Kamo because they are from the same field of endeavor, namely processing and correction of scanned digital image data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to perform a filtering process on the scanned image data, as taught by Kamo. The motivation for doing so would have been improve the overall image quality. Therefore, it would have been obvious to combine Kamo with Tse in view of Kago to obtain the invention as specified in claim 29.

6. Claims 12-13 and 24-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tse (US Patent 6,198,845 B1), Venable (US Patent 5,270,806), and Kago (US Patent 5,388,167).

Regarding claims 12 and 24: Tse discloses:

- a memory unit (figure 13(220) of Tse) which stores therein scanned image data (column 8, line 51 and column 9, lines 5-11 of Tse) and original background level data (column 3, lines 32-35 and lines 53-56 of Tse).
- a background removal unit (figure 13(100(portion)) of Tse) which removes background noise from the scanned image data stored in said memory unit (column 7, lines 42-47 of Tse). Tse does not disclose expressly that said original background level value data is separate from the scanned image data; an

input unit which receives a user instruction making a choice between performing of said background noise removal on the scanned image data and non-performing of said background noise removal on the scanned images; and that said background removal unit removes background noise in response to the user instruction indicative of performing of said background noise removal, and refrains from removing background noise in response to the user instruction indicative of non-performing of said background noise removal, wherein in response to the user instruction indicative of performing of the background noise removal, said original background level value data is modified by image processing identical to that applied to the scanned image data to produce modified background level value data.

Venable discloses:

- an input unit (figure 4(52) of Venable) which receives a user instruction (column 5, lines 31-41 of Venable) making a choice between performing of an image processing function on the scanned image data and non-performing of said image processing function of the scanned image data (column 7, lines 58-68 of Venable).
- performing said image processing function in response to the user instruction indicative of performing said image processing function, and refraining from performing said image processing function in response to the user instruction indicative of non-performing of said image processing function (column 7, lines 58-68 of Venable). Image processing is performed with an interactive interface (column 7, lines 58-68 of Venable). If performance of a particular image processing is desired, the user simply changes a setting from the present position. If non-performance is

desired, the user simply leaves said setting at the present position.

Tse and Venable are combinable because they are from the same field of endeavor, namely the processing and editing of digital color image data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to include a user interface so that a user can select whether or not to perform a particular image processing function, as taught by Venable, wherein said image processing function is the background noise removal taught by Tse. The motivation for doing so would have been that the interactive image processing taught by Venable allows a user to perform image processing for multiple variables, thus eliminating a lot of the tedious trial and error normally required for image processing based on multiple variables (column 7, lines 47-62 of Venable). Therefore, it would have been obvious to combine Venable with Tse.

The combination of Tse and Venable does not disclose expressly that said original background level value data is separate from the scanned image data; and that, in response to said user instruction indicative of performing of the background noise removal, said original background level value data is modified by image processing identical to that applied to the scanned image data to produce modified background level value data.

Koga discloses:

- the original background level value data (figure 2D of Koga) is separate from the scanned image data (figure 2C and column 10, lines 30-46 of Koga).
- said original background level value data is modified by image processing (column 10, lines 39-46 of Koga) identical to that applied to the scanned image data to produce modif-

ied background level value data (column 10, lines 30-46 of Koga). Both the original background level value data and the scanned image data are processed by the shading extraction (column 10, lines 30-46 of Koga), thus keeping the original background level value data (figure 2D of Koga) separate from the scanned image data (figure 2C of Koga).

The combination of Tse and Venable is combinable with Koga because they are from the same field of endeavor, namely removing background data in scanned document image data. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to remove background data that is separate from and not part of the image data, while applying identical image processing to the original background level value data and to the scanned image data, as taught by Koga. The motivation for doing so would have been to improve the efficiency of image data transmission (column 10, lines 22-25 and lines 39-46 of Koga). Therefore, it would have been obvious to combine Koga with Tse to obtain the invention as specified in claims 12 and 24.

Further regarding claim 24: The apparatus of claim 12 performs the method of claim 24.

Regarding claims 13 and 25: Tse does not disclose expressly a controller which connects the memory unit to an external network so as to allow access to be made from the external network to the scanned image data stored in said memory unit.

Venable discloses a controller which connects the memory unit to an external network so as to allow access to be made from the external network to the scanned image data stored in said memory unit (figure 3 and column 4, lines 56-65 of Venable).

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Tse and Venable are combinable because they are from the same field of endeavor, namely the processing and editing of digital color image data. At the time of the invention, it would have been obvious to connect the memory unit to an external network, as taught by Venable. The motivation for doing so would have been to allow various external workstations, print servers, and other devices to access the processed image data, thus allowing external users access to more complex image processing services than may be available locally (column 4, lines 60-65 of Venable).

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Keith T. Knox, US Patent 5,646,744, Patented 08 July 1997.

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Thompson whose telephone number is 571-272-7441. The examiner can normally be reached on 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David K. Moore can be reached on 571-272-7437. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

James A. Thompson
Examiner
Technology Division 2625


22 September 2006



DAVID MOORE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600